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PTO/SB/01 (10-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)</b>  <input checked="" type="checkbox"/> Declaration Submitted with Initial Filing      OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	56.0649
	First Named Inventor	Hinkel, Jerald
	<b>COMPLETE IF KNOWN</b>	
	Application Number	/
	Filing Date	
	Group Art Unit	
	Examiner Name	

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Improved Fracturing Fluid And Method Of Use

(Title of the Invention)

the specification of which

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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## DECLARATION — Utility or Design Patent Application

Direct all correspondence to:

☒ Customer Number  
or Bar Code Label

27452

OR ☐

Correspondence address below

Name

Address

Address

City

State

ZIP

Country

Telephone

Fax

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR :

☐ A petition has been filed for this unsigned inventor

Given Name

Jerald

Family Name

Hinkel

(first and middle [if any])

or Surname

Inventor's  
Signature

Date

5 Apr 02

Residence: City

Houston

State

TX

Country

US

Citizenship

US

Mailing Address

18219 Mountfield Drive

Mailing Address

City

Houston

State

TX

ZIP

77084

Country

US

NAME OF SECOND INVENTOR:

☐ A petition has been filed for this unsigned inventor

Given Name

J. Ernest

Family Name

Brown

(first and middle [if any])

or Surname

Inventor's  
Signature

Date

5 Apr 02

Residence: City

Katy

State

TX

Country

US

Citizenship

US

Mailing Address

2015 Parco Verde Circle

Mailing Address

City

Katy

State

Texas

ZIP

77450

Country

US

☒ Additional inventors are being named on the \_\_\_\_\_ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

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PTO/SB/02A (11-00)

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<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> Supplemental Sheet Page <u>1</u> of <u>1</u>
--------------------	--

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Curtis		Boney	
Inventor's Signature		Date <u>4-5-02</u>	
Residence: City Houston	State TX	Country US	Citizenship US
Mailing Address 14918 Chadbourne			
Mailing Address			
City Houston	State TX	ZIP 77079	Country US
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Gregory		Sutton	
Inventor's Signature		Date	
Residence: City Pearland	State TX	Country US	Citizenship US
Mailing Address 3040 FM 518 #2341			
Mailing Address			
City Pearland	State TX	ZIP 77584	Country US
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address			
Mailing Address			
City	State	ZIP	Country

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PTO/SB/02A (11-00)

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## DECLARATION

 ADDITIONAL INVENTOR(S)  
 Supplemental Sheet  
 Page 1 of 1

Name of Additional Joint Inventor, If any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Curtis		Boney	
Inventor's Signature		Date	
Residence: City	Houston	State	TX
		Country	US
Citizenship US			
Mailing Address 14918 Chadbourne			
Mailing Address			
City	Houston	State	TX
		ZIP	77079
		Country	US
Name of Additional Joint Inventor, If any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Gregory		Sutton	
Inventor's Signature <i>Gregory Sutton</i>		Date 4/5/02	
Residence: City	Pearland	State	TX
		Country	US
Citizenship US			
Mailing Address 3040 FM 518 #2341			
Mailing Address			
City	Pearland	State	TX
		ZIP	77584
		Country	US
Name of Additional Joint Inventor, If any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City		State	
		Country	
Citizenship			
Mailing Address			
Mailing Address			
City		State	
		ZIP	
		Country	

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JUNE 13, 2002

PTAS

Chief Information Officer  
Washington, DC 20231  
www.uspto.gov

WELL STIMULATION  
THOMAS O. MITCHELL  
IP DEPT.  
110 SCHLUMBERGER DRIVE, MD1  
SUGAR LAND, TX 77478



\*102060873A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/05/2002

REEL/FRAME: 012793/0614  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
HINKEL, JERRY

DOC DATE: 04/05/2002

ASSIGNOR:  
BROWN, ERNEST

DOC DATE: 04/05/2002

ASSIGNOR:  
BONEY, CURTIS

DOC DATE: 04/05/2002

ASSIGNOR:  
SUTTON, GREGORY

DOC DATE: 04/05/2002

ASSIGNEE:  
SCHLUMBERGER TECHNOLOGY  
CORPORATION  
110 SCHLUMBERGER DRIVE  
SUGAR LAND, TEXAS 77478

SERIAL NUMBER: 10117499  
PATENT NUMBER:

FILING DATE: 04/05/2002  
ISSUE DATE:

012793/0614 PAGE 2

STEVEN POST, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

04-19-2002



Form PTO-1595

R

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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102060873

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Jerry Hinkel, Ernest Brown  
Curtis Boney and Gregory Sutton

## 2. Name and address of receiving party(ies)

Name: Schlumberger Technology Corporation

Internal Address: \_\_\_\_\_

Street Address: 110 Schlumberger Drive

City: Sugar Land State: TX Zip: 77478

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: April, 05, 2002

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 4/5/2002

A. Patent Application No.(s) \_\_\_\_\_

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Thomas O. Mitchell

Internal Address: IP Dept., Well Stimulation

Street Address: 110 Schlumberger Drive, MD1

City: Sugar Land State: TX Zip: 77478

6. Total number of applications and patents involved: ☐

7. Total fee (37 CFR 3.41).....\$ 40.00

- ☐ Enclosed  
☒ Authorized to be charged to deposit account

## 8. Deposit account number:

04-1579 (56.0649)

DO NOT USE THIS SPACE

## 9. Signature.

Thomas O. Mitchell

Name of Person Signing

Signature

April 5, 2002

Date

Total number of pages including cover sheet, attachments, and documents: ☒ 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

04/18/2002 6TON11 00000190 041579 10117499

01 FC:581

40.00 CH

jc971 U.S. PTO  
10/11/99  
04/05/02

## ASSIGNMENT

WHEREAS, we,

1. **Jerald Hinkel**, a citizen of the United States, whose post office address is 18219 Mountfield Drive, Houston, Texas 77084;
2. **Ernest Brown**, a citizen of the United States, whose post office address is 2015 Parco Verde Circle, Katy, Texas 77450;
3. **Curtis Boney**, a citizen of the United States, whose post office address is 14918 Chadbourne, Houston, Texas, 77079; and
4. **Gregory Sutton**, a citizen of the United States, whose post office address is 3040 FM 518 #2341, Pearland, Texas 77584;

hereinafter referred to as the "Inventors" have invented certain new and useful improvements in

### IMPROVED FRACTURING FLUID AND METHOD OF USE

for which we have described and set forth in an application for Letters Patent of the United States of America:

☒ for which an application for a United States patent was executed on April 5, 2002, attached herewith.

WHEREAS, **Schlumberger Technology Corporation**, hereinafter referred to as the "said COMPANY", a corporation duly organized, incorporated and existing under the laws of the State of Texas and having a place of business at 110 Schlumberger Drive, Sugar Land, Texas 77478 is desirous of acquiring or confirming its acquisition of the entire right, title and interest in and to said invention, inventions or improvements, and in and to said application, and in and to any and all patents, both of the United States and of all foreign countries, that may be obtained therefore;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that we the Inventors, for good and valuable considerations, the receipt and sufficiency of which we hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said COMPANY, its successors and assigns, the entire right, title and interest throughout the world, in and to the invention, inventions or improvements described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign applications under the provisions of any convention or treaty; and in and to any confirmation, divisional, continuation, continuation-in-part, or substitute application which may be filed on said invention, inventions or improvements in the United



States or in any foreign country; and in and to any and all patents, certificates, utility models, reissues, extensions, additions or confirmations thereof which may be granted in the United States or in any foreign country upon said invention, inventions or improvements,

TO HAVE AND TO HOLD the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

AND WE DO HEREBY AUTHORIZE and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said COMPANY, its successors and assigns, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said COMPANY, its successors and assigns.

AND WE DO HEREBY COVENANT AND WARRANT that we have full right to convey the entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that we have not executed and will not execute any instruments in conflict herewith.

AND WE, FOR THE CONDITIONS AFORESAID, DO HEREBY COVENANT and agree to and with the said COMPANY, its successors and assigns, that we, my executors or administrators, will execute and deliver any and all other instruments in writing, and any and all further applications, papers, powers, affidavits, assignments, disclaimers and other documents, which in the opinion of counsel for said COMPANY, its successors and assigns, may be required or necessary in this or in any foreign country more effectually to secure to and vest in said COMPANY, its successors and assigns, the entire right, title and interest in and to said invention, inventions or improvements, application or applications, patents, rights, titles, benefits, privileges, and advantages hereby sold, assigned, confirmed, transferred and conveyed.

IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 5<sup>th</sup> day of April, 2002.

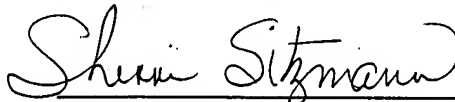
  
Jerald Hinkel

STATE of TEXAS

§  
§  
§

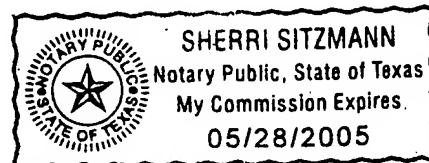
COUNTY of FT: BEND

Subscribed and sworn to before me this 5<sup>th</sup> day of April, 2002.



Notary Public in and for the State of Texas

My Commission Expires: May 28, 2005



IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 5<sup>th</sup> day of April, 2002.

[Signature]  
Ernest Brown

STATE of TEXAS

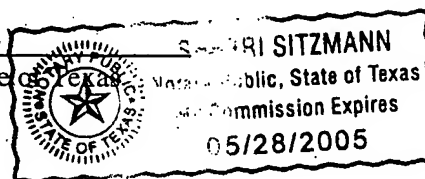
§  
§  
§

COUNTY of FT. BEND

Subscribed and sworn to before me this 5<sup>th</sup> day of April, 2002.

Sherrri Sitzmann

Notary Public in and for the State of Texas



My Commission Expires: May 28, 2005

IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 5<sup>th</sup> day of April, 2002.

[Signature]  
Curtis Boney

STATE of TEXAS

§  
§  
§

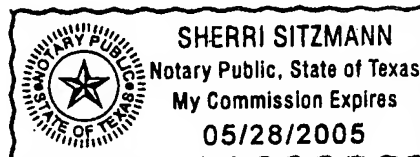
COUNTY of FT. BEND

Subscribed and sworn to before me this 5<sup>th</sup> day of April, 2002.

Sherrri Sitzmann

Notary Public in and for the State of Texas

My Commission Expires: May 28, 2005



IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 5<sup>th</sup> day of April, 2002.

Gregory Sutton  
Gregory Sutton

STATE of TEXAS

COUNTY of FT. BEND

§  
§  
§

Subscribed and sworn to before me this 5<sup>th</sup> day of April, 2002.

Helen M. Schuck  
Notary Public in and for the State of Texas

My Commission Expires: Jan. 14, 2004

